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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/727,074	12/03/2003		Robert W. Stadler	P-20485.00	4895
27581	7590	02/09/2006		EXAMINER	
MEDTRONIC, INC. 710 MEDTRONIC PARK				JACKSON, BRYAN M	
MINNEAPOLIS, MN 55432-9924				ART UNIT	PAPER NUMBER
	,			3762	

DATE MAILED: 02/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/727,074	STADLER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Bryan M. Jackson	3762				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	I. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 03 De	ecember 2003.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-57</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3,5-12,16-19,21-28,32-36,38-45,and 49-51</u> is/are rejected.						
7) Claim(s) <u>4,13-15,20,29-31,37,46-48 and 52-57</u>	· ·					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>03 December 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/21/04, 2/13/04.	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

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DETAILED ACTION

Information Disclosure Statement

The Information disclosure statement (IDS) submitted on 4/21/04 and 2/13/04 are acknowledged. The submission is in compliance with the provisions of 37 CFR 1.97 and 1.98. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6-7, 9-10, 22-23, 25-26, 39-40, and 42-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear what "a first rate" and "a second rate less than the first rate" refers to (i.e. time period, etc.).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 5, 11-12, 16-18, 21, 27-28, 32-35, 44-45, and 49-51 are rejected under 35 U.S.C. 102(b) as being anticipated by Cohen (5163429). Cohen discloses "a signal representative of fixed or varying baseline pressure is provided and if the short term current pressure differs therefrom by a predetermined value", considered to be a threshold, "an indication of hemodynamic compromise" is given, and "determination of whether the difference between fixed or varying baseline pressure and current pressure is undertaken" after a rate criteria (abstract).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3,19, and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen (5163429). Cohen discloses the claimed invention but does not disclose expressly the accumulation of the difference between a baseline and recent parameter value. It would have been an obvious matter of design choice to a person of ordinary skill in the art to modify the determination of the difference between a baseline pressure & current pressure with a threshold as an indication of hemodynamic compromise, as taught by Cohen, with the an

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accumulated difference, because Applicant has not disclosed that an accumulated difference provides an advantage, is used for a particular purpose, or solve a stated problem. One of ordinary skill in the art, furthermore, would have expected the Applicant's invention to perform equally well with the determination of the difference between a baseline pressure & current pressure with a threshold as an indication of hemodynamic compromise, as taught by Cohen, because it provides a means for alerting a patient of hemodynamic compromise, and since it appears to be an arbitrary design consideration which fails to patentably distinguish over Cohen.

Therefore, it would have been an obvious matter of design choice to modify Cohen to obtain the invention as specified in the claim(s).

Claims 5, 21, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen in view of Hauck (5318597). Cohen discloses the claimed invention except for the second computation scheme for a baseline trend (claim 5). Hauck teaches that it is known to use a constant, K, to be programmable so as to allow baselines to be computed (col 7, ln 38-44) – (see equation in figure 4c, block 132), wherein K is considered a constant equivalent to a rate value. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the first computation of a fixed or varying baseline, as taught by Cohen, with a constant, K, to be programmable so as to allow baselines to be computed, as taught by Hauck, in order to provide different baseline values for comparison against a predetermined threshold.

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Claims 8, 24, and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen in view of Alt (20040116819). Cohen discloses the claimed invention except for the second computation scheme for a short term trend. Alt teaches that it is known to compute short term averages of impedance values for a period of hours to days (pg 7, para 0042). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the first computation of a short term value, as taught by Cohen, with a second computation of short term average for a period of hours to days, as taught by Alt, in order to provide different short term values for comparison against a baseline value.

Allowable Subject Matter

Claims 4, 13-15, 20, 29-31, 37, 46-48, and 52-57 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Van Dam (6671549) discloses a pacemaker utilizing QT dynamics to diagnose heart failure. Padmanabhan (6508771) discloses a method and apparatus for monitoring heart rate.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryan M. Jackson whose telephone number is 571-272-7335. The examiner can normally be reached on Monday through Friday, 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on 571-272-4955. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JEFFREY R. JASTRZAB PRIMARY EXAMINER